

Exhibit A

Claims

- 1. A method of verifying a plan for a wireless local area network, comprising:**
receiving measured wireless local area network data; comparing the measured wireless local area network data with expected wireless local area network data, the expected wireless local area network data generated at least from floor plan data about a site of the wireless local area network, and placement and configuration of a plurality of access points of the wireless local area network; and based at least on the measured wireless local area network data, changing one or more of: the floor plan data about the site of the wireless local area network, the quantity of the plurality of access points, the placement of the plurality of access points, and the configuration of the plurality of access points.
- 2. The method of claim 1 wherein the measured wireless local area network data includes radio frequency measurements.**
- 3. The method of claim 2 wherein the measured wireless local area network data includes measured radio frequency signal strength data from the radio frequency measurements and the expected wireless local area network data includes expected radio frequency signal strength data.**
- 4. The method of claim 2 wherein the measured wireless local area network data includes measured channel data from the radio frequency measurements and the expected wireless local area network data includes expected channel data.**
- 5. The method of claim 2 wherein the measured wireless local area network data includes measured access point position data of the plurality of access points from the radio frequency measurements and the expected wireless local area network data includes expected access point position data of the plurality of access points.**

6. The method of claim 2 wherein the measured wireless local area network data includes media access control address data associated with the radio frequency measurements and the expected wireless local area network data includes expected media access control address data.
7. The method of claim 1 wherein changing the floor plan data includes making one or more changes in objects in the floor plan data associated with radio frequency attenuation factors.
8. The method of claim 1 wherein changing the floor plan data includes making one or more changes in radio frequency attenuation factors associated with objects in the floor plan data.
9. The method of claim 1 further comprising:
based at least on the measured wireless local area network data, changing one or more of: at least one of quantity, placement, and configuration of one or more distribution system switches at the site for the wireless local area network, the one or more distribution system switches connecting to the plurality of access points.
10. The method of claim 1 wherein changing the configuration of the plurality of access points includes making one or more changes in power levels for the plurality of access points.
11. The method of claim 1 wherein changing the configuration of the plurality of access points includes making one or more changes in channel assignments for the plurality of access points.
12. The method of claim 1 further comprising:
generating work order data based at least on the one or more changes for one or more of: the floor plan data about the site of the wireless local area network, the quantity of the plurality of access points, the placement of the plurality of access points, and the configuration of the plurality of access points.
13. The method of claim 12 wherein the work order data includes installation instructions for the plurality of access points of the wireless local area network.
14. The method of claim 13 wherein the work order data includes installation instructions for one or more distribution system switches connecting to the plurality of access points of the wireless local area network.

15. The method of claim 1 further comprising:
displaying coverage data based at least on the measured wireless local area network data.
16. The method of claim 15 wherein the coverage data indicates coverage areas of the site serviced by the plurality of access points.
17. The method of claim 16 wherein the coverage data is indicated with at least the floor plan data.
18. The method of claim 15 wherein the coverage data depends on a technology standard of the wireless local area network.
19. The method of claim 18 wherein at least one coverage area supports one or more technology standards of the wireless local area network
20. The method of claim 1 further comprising:
displaying capacity data based at least on the measured wireless local area network data.
21. The method of claim 20 wherein the capacity data includes one or more throughput rates for stations serviced by the plurality of access points.
22. The method of claim 20 wherein the capacity data includes one or more average desired association rates for stations serviced by the plurality of access points.
23. The method of claim 20 wherein the capacity data includes one or more quantities of stations serviced by the plurality of access points.
24. The method of claim 23 wherein the capacity data includes one or more quantities of active stations serviced by the plurality of access points.
25. The method of claim 23 wherein the capacity data includes one or more quantities of total stations serviced by the plurality of access points.
26. The method of claim 1 further comprising:
displaying floor plan data based at least on the measured wireless local area network data.
27. The method of claim 26 wherein the floor plan data is imported.

28. The method of claim 26 wherein the floor plan data is manually drawn via computer.
29. The method of claim 26 wherein objects in the floor plan data are associated with radio frequency attenuation factors.
30. The method of claim 29 wherein objects in the floor plan data are associated with radio frequency attenuation factors that depend on a technology standard of the wireless local area network.
31. The method of claim 2 wherein the radio frequency measurements include access point radio frequency measurements taken by access points of the plurality of access points.
32. The method of claim 32 wherein the access points of the plurality of access points take the radio frequency measurements by at least listening to wireless local area network traffic.
33. The method of claim 1 wherein the measured wireless local area network data include network statistics.
34. The method of claim 33 wherein the network statistics include one or more of: Ethernet statistics, Ethernet errors, radio statistics, and session statistics.
35. The method of claim 33 wherein the network statistics are collected for one or more of: the site of the wireless local area network, one or more buildings of the site of the wireless local area network, one or more floors of the site of the wireless local area network, one or more portions of the site of the wireless local area network, one or more distribution system switches connecting to the plurality of access points, one or more access points of the plurality of access points, and one or more ports of the one or more distribution system switches.
36. The method of claim 33 wherein the network statistics include one or more of: octet data, packet data, and error data.
37. Code verifying a plan for a wireless local area network, comprising:
code that performs receiving measured wireless local area network data;
code that performs comparing the measured wireless local area network data with expected wireless local area network data, the expected wireless local area network data generated

at least from floor plan data about a site of the wireless local area network, and placement and configuration of a plurality of access points of the wireless local area network; and

code that performs, based at least on the measured wireless local area network data, changing one or more of: the floor plan data about the site of the wireless local area network, the quantity of the plurality of access points, the placement of the plurality of access points, and the configuration of the plurality of access points.

38. An apparatus verifying a plan for a wireless local area network, comprising:

means for receiving measured wireless local area network data;

means for comparing the measured wireless local area network data with expected wireless local area network data, the expected wireless local area network data generated at least from floor plan data about a site of the wireless local area network, and placement and configuration of a plurality of access points of the wireless local area network; and

means for, based at least on the measured wireless local area network data, changing one or more of: the floor plan data about the site of the wireless local area network, the quantity of the plurality of access points, the placement of the plurality of access points, and the configuration of the plurality of access points.